Performance Data Sheet

AVA5535EXN

General Information

Model	AVA5535EXN	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	9340	7820					
	Watts	1800	1770					
	Amps	8.99	8.90					
	Lb/h	120	105					
-10	Btu/h	11500	9830	8230				
	Watts	1910	1910	1880				
	Amps	9.45	9.46	9.33				
	Lb/h	147	131	114				
-5	Btu/h	13800	12000	10300	8600			
	Watts	2010	2030	2030	1980			
	Amps	9.87	9.98	9.96	9.78			
	Lb/h	176	160	142	124			
0	Btu/h	16400	14500	12600	10700	8950		
	Watts	2100	2150	2170	2150	2100		
	Amps	10.2	10.4	10.5	10.5	10.2		
	Lb/h	208	191	173	154	134		
5	Btu/h	19200	17200	15100	13100	11100		
	Watts	2190	2250	2300	2310	2280		
	Amps	10.6	10.9	11.0	11.1	11.0		
	Lb/h	242	224	206	186	166		
10	Btu/h	22300	20100	17900	15700	13600	11500	9490
	Watts	2260	2350	2410	2450	2460	2420	2340
	Amps	10.9	11.2	11.5	11.7	11.7	11.5	11.2
	Lb/h	279	261	241	221	200	178	155
15	Btu/h	25600	23300	20900	18500	16200	14000	11800
	Watts	2320	2430	2520	2590	2620	2620	2560
	Amps	11.1	11.6	11.9	12.2	12.3	12.3	12.1
	Lb/h	318	300	280	259	237	214	190
20	Btu/h	29200	26700	24200	21700	19100	16700	14300
	Watts	2380	2500	2620	2710	2770	2800	2780
	Amps	11.3	11.9	12.3	12.7	12.9	13.0	13.0
	Lb/h	361	342	322	300	278	254	229

25	Btu/h	33100	30500	27800	25000	22300	19700	17100
	Watts	2420	2570	2700	2820	2910	2970	2980
	Amps	11.5	12.1	12.6	13.1	13.5	13.7	13.8
	Lb/h	406	387	367	345	322	297	272
30	Btu/h	37400	34500	31600	28700	25800	23000	20100
	Watts	2460	2620	2780	2920	3030	3120	3170
	Amps	11.7	12.3	12.9	13.5	13.9	14.3	14.5
	Lb/h	455	436	415	393	369	344	318
35	Btu/h	41900	38900	35800	32700	29600	26500	23500
	Watts	2490	2670	2840	3010	3150	3270	3350
	Amps	11.8	12.5	13.2	13.8	14.4	14.8	15.2
	Lb/h	508	489	467	445	421	395	368
40	Btu/h	46800	43600	40300	37000	33700	30400	27100
	Watts	2510	2710	2900	3080	3250	3400	3510
	Amps	11.9	12.6	13.4	14.1	14.8	15.3	15.8
	Lb/h	564	545	523	500	476	450	422
45	Btu/h	52100	48700	45200	41700	38100	34600	31100
	Watts	2520	2730	2940	3150	3350	3520	3670
	Amps	11.9	12.8	13.6	14.4	15.1	15.8	16.4
	Lb/h	624	604	583	560	535	508	480
50	Btu/h	57700	54100	50400	46700	42900	39100	35400
	Watts	2530	2750	2980	3210	3430	3630	3800
	Amps	12.0	12.9	13.7	14.6	15.4	16.2	16.9
	Lb/h	688	668	647	624	598	571	543
55	Btu/h	63700	59900	56000	52100	48100	44000	40000
	Watts	2530	2760	3010	3260	3500	3730	3930
	Amps	12.0	12.9	13.9	14.8	15.7	16.6	17.4
	Lb/h	756	736	715	691	666	639	609

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.945387E+04	1.763436E+03	7.719391E+00	3.086512E+02
C2	6.980001E+02	5.388401E+00	2.149533E-02	6.606763E+00
C3	-1.129263E+02	-5.187186E+00	9.500622E-03	-7.914497E-01
C4	5.847503E+00	-7.094611E-02	-1.505104E-04	4.005725E-02
C5	-1.305210E+00	-1.005943E-01	-4.369386E-04	8.367568E-03
C6	-9.246012E-01	2.211733E-01	6.366976E-04	-6.504070E-03
C7	1.924795E-02	2.721273E-04	3.041745E-06	2.157213E-04
C8	-1.288946E-02	-1.524189E-03	-8.937685E-06	1.230205E-04
C9	-8.690979E-03	3.145901E-03	1.309683E-05	-1.115742E-04
C10	3.680141E-03	-1.289612E-03	-4.508671E-06	8.163322E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature